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Applicant : Robert J. Sicurelli Jr. and Samuel Masyr  
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Examiner Initial	Document Number	U.S. PATENT DOCUMENTS* Date	Name	Class Sub Filing Class Date
gu	622,670	Apr., 1899	Dwight	433/221.
	637,303	Nov., 1899	Tait	
	636,568	Nov., 1899	Seeley	433/221
	720,394	Feb., 1903	Arndt	
	732,922	Jul., 1903	Clark	433/221
	822,582	Jun., 1906	Carmichael	433/220.
	1,218,289	Mar., 1917	Maker	433/220
	1,463,963	Aug., 1923	Miller	
	2,793,436	May, 1957	Gotlib	
	3,675,327	Jul., 1972	Huget, et al	32/6
	3,753,434	Aug., 1973	Pike, et al	128/2.12
	3,899,830	Aug., 1975	Malmin	32/15
	3,949,476	Apr., 1976	Kahn	32/12.
	3,992,725	Nov., 1976	Homsy	428/408
	4,056,591	Nov., 1977	Goettler, et al	264/108
	4,107,845	Aug., 1978	Lee	32/15
	4,142,293	March, 1979	Tieche	32/15
	4,172,867	Oct., 1979	Devault	264/16.
	4,312,917	Jan., 1982	Hawley	428/375
	4,321,042	Mar., 1982	Scheicher	433/201
9u	4,381,918	May, 1983	Ehrnford	433/199



4,393,020  
4,427,383  
4,439,387  
4,490,116  
4,525,147  
4,536,158  
4,604,097  
4,622,012  
4,631,030  
4,645,457  
4,681,544  
4,684,555  
4,696,646  
4,717,341  
4,718,910  
4,726,770  
4,738,616  
4,759,714  
4,778,388  
4,778,389  
4,894,012  
4,906,420  
4,934,936  
4,936,776  
4,952,150  
4,990,090  
5,007,837  
5,030,093  
5,073,112  
5,074,792  
5,088,927  
5,092,773  
5,098,304  
5,116,227  
5,145,373

Jul., 1983  
Jan. 1984  
Mar., 1984  
Dec., 1984  
Jun., 1985  
Aug., 1985  
Aug., 1986  
Nov., 1986  
Dec., 1986  
Feb., 1987  
Jul., 1987  
Aug., 1987  
Sep., 1987  
Jan., 1988  
Jan., 1988  
Feb., 1988  
Apr., 1988  
Jul., 1988  
Oct., 1988  
Oct., 1988  
Jan., 1990  
Mar., 1990  
Jun., 1990  
Jun., 1990  
Aug., 1990  
Feb., 1991  
Apr., 1991  
Jul., 1991  
Dec., 1991  
Dec., 1991  
Feb., 1992  
Mar., 1992  
Mar., 1992  
May, 1992  
Sep., 1992

Li, et al 264/108  
Goldman 433/220  
Hawley 264/108  
Deutsch, et al 433/215  
Pitz, et al 433/224  
Bruins, et al 433/201.1  
Graves, et al 623/11  
Smoler 433/221.  
von Weissenfluh 433/149  
Goldman 433/220.  
Anthony 433/215  
Neumeyer 428/36.  
Maitland 433/149:  
Goldberg, et al 433/9  
Draenert 623/16  
Kurer 433/229.  
Reynaud 433/220.  
Szeguary 433/221.  
Yuda 433/221.  
Salvo 433/221.  
Goldberg et al 433/215.  
Branjnovic, et al 264/17  
Miller 433/220.  
Kwiakowski 433/220.  
Schiwiora 433/220.  
Roane 433/220.  
Werly 433/226.  
Mitnick 433/164.  
Weil 433/221.  
Bernadat 433/220.  
Lee 433/224.  
Levy 433/224.  
Scharf 433/215.  
Levy 433/216.  
Roane 433/221.



5,165,893 Nov., 1992 Thompson 433/224.  
5,266,609 Nov., 1993 Hall, et al 523/116  
5,282,747 Feb., 1994 Nordin 433/221.  
5,284,443\* Feb., 1994 Weil 433/224.

~~\*including Interference No. 103,703 Digest with US  
Patent No. 5,326,263 of Weissman~~

5,320,530 Jun., 1994 Fong 433/119.  
5,326,263\* Jul., 1994 Weissman 433/224.

~~\*including Interference Digest No. 103,703 Digest  
with US Patent No. 5,284,443 of Weil~~

5,326,264 Jul., 1994 Al Kasem 433/224.  
5,328,372 Jul., 1994 Reynaud et al. 433/220.  
5,564,929 Oct., 1994 Alpert 433/220.  
5,407,973 Apr., 1995 Hasegawa 523/116.  
5,425,640 Jun., 1995 Scharf 433/215  
5,518,399 May., 1996 Sicurelli, et al 433/220.  
5,741,139 Apr., 1998 Sicurelli, et al 433/220  
5,798,162 Aug., 1998 Bank 428/76  
5,890,904 Apr., 1999 Reynaud et al 433/220.  
5,915,970 Jun., 1999 Sicurelli, et al 433/220  
5,919,044 Jul., 1999 Sicurelli, et al 433/220  
5,921,775 Jul., 1999 Buchanan 433/102  
5,964,592 Oct., 1999 Hites, et al 433/221  
6,012,924 Jan., 2000 Reynaud, et al 433/220  
6,039,569 Mar., 2000 Prasad, et al 433/180  
6,106,283 Aug., 2000 Roffe, et al 433/32  
6,126,445 Oct., 2000 Willoughby 433/223  
6,132,215 Oct., 2000 Prasad, et al 433/220  
6,168,432 Jan., 2001 Marlin 433/81  
6,254,389 Jul., 2001 Seghatol 433/215  
6,270,343 Aug., 2001 Martin 433/32  
6,433,037 Aug. 13, 2002 Guzauskas 522/71  
6,447,297 Sep., 2002 Lopez, et al 433/224



# FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class Sub Translation- (drawings only)
745543	-	Germany	NO
1541209	Jul., 1969	Germany	YES
1302022	Jan., 1973	United Kingdom	NO
2728494	Jan., 1979	Germany	A61N 1/20
900844	Jan., 1982	USSR	NO
2491326	Apr., 1982	France	A61C8/00
0076086	Sep., 1982	EPO	YES
3411366	Oct., 1985	Germany	YES (Abstract only)
1277950	Dec., 1986	USSR	Front page only YES
2587197	Mar., 1987	France	Front page only NO
8515527	Apr., 1987	France	YES
2588181	Apr., 1987	France	A61C 13/087 YES
3643219 A1	Jun., 1988	Germany	YES (Abstract only)
2626167	Jan., 1989	France	NO
1457914	Mar., 1989	USSR	YES (Abstract only)
1519684	Nov., 1989	USSR	YES (Abstract only)
2214087	Jan., 1989	United Kingdom	YES
3825601	Mar., 1989	Germany	YES
3839466	Mar., 1989	Germany	YES (Abstract only)
3901640	Aug., 1989	Germany	NO
669514	Mar., 1989	Switzerland	NO
2645431	Oct., 1990	France	NO
WO 91/07142	May, 1991	WIPO	Front page only NO



### III OTHER REFERENCES\*\*

(Including Author, Title, Date, Pertinent Pages, Etc.)

*gn* Abou-Rass, M., Post and Core restoration of endodontically treated teeth, Current Science, Pages 99-107. (1992)

*gn* Asmussen, Erik, Stiffness, elastic limit, and strength of newer types of endodontic posts, Journal of Dentistry, Volume 27, Issue 4, May 1999, Abstract only.

~~Blitz, N., Adaptation Of A Fiber-Reinforced Restorative System To The Rehabilitation Of Endodontically Treated Teeth, PPA, 10:2, Pages 191-193. No date supplied~~

~~\*\*Buguigal R., Actualités Odonto-stomatologiques N° 150 1985.~~

*gn* Cailleteau, J.G.; Rieger, M.R.; Akin, J.E., A comparison of Intra canal stresses in a post-restored tooth utilizing the Finite Element Method, Journal of Endodontics, 18:11, 540-544. (1992)

~~Carranza D.O.; Fermin, Glickman's Clinical Periodontology, WB Saunders Company, Fifth edition, index pages for Protheses, Restorations, and Appliances, 3 pages No date~~

~~\*\*CAVALLI, BERTANI, GENERALI, Il restauro preprotesico e protesico del dente trattato endodonticamente, Dental Cadmos, 11/98.~~

*gn* Charbancao, et al., Principles and Practice of Operative Dentistry 2d ed., Chap. 16, Lea & Febiger. (1981)

~~\*\*CHRISTENSEN, Posts and Cores, State of the Art, JADA VOL 129, January 1998.~~



*gn* Cohen, B.I.; Mustant, S.L. and Deutsch, A.S., Comparison of retentive properties of four post systems, Journal of Prosthetic Dentistry, Vol. No. 68.2, 1992, Pages 264-268. (1992)

~~"C-Post" Brochure, Bisco Company, Itasca, Illinois, undated. No Date~~

~~\*\*CRA, Posts strength, Tests: results and conclusions. 1998.~~

~~\*\*CRA, Esthetic posts, NEWSLETTER, May 2004 Issue~~

~~\*\*CREUGERS N., Nijmegen University, The applicability of two non metal posts for post and core restoration, 1998.~~

*gn* Denlok Brochure, Denlok, Inc., Arcardia, Calif. May 1984, 5 pages.

*gn* Dietschi, D.; Romelli, M. and Goretti, A., Adaptation of Adhesive Posts and Cores to Dentin After Fatigue Testing, 10:6, Pages 498-507. (1997)

~~Duret, B., Reynaud, M. and Duret, F., A new concept in Crown-root Reconstruction - The Compostpost, Restorative Odontology, Le Chirorgien Dentiste De France 540:22, 1-16; 131-141. No Date~~

~~Pentron Clinical Technologies, Endodontic Obturation System, Dental Products Report Advertisement, (Oct. 2001), 1 Page. No Date~~

*gn* Finger, Ahlstrand, Fritz, Evaluation of the Radiopacity of Fiber-reinforced Resin Posts, American Journal of Dentistry, Vol. 15, No. 2, April 2002, 1 page.

~~"Flexi-Post & Flexi-Flange" Advertisement, Essential Dental Systems, 89 Launing Street, S Hackensack, NJ 07606 undated, 1 page. No Date~~

*gn* Fredriksson, M.; Astback, J.; Pamenius, M. and Arvidson, K., A retrospective study of 236 patients with teeth restored by carbon fiber-reinforced epoxy resin posts, Journal of Prosthetic Dentistry, 80:2, Pages 151-157. (1998)



gn Freedman, G., The Carbon Fibre Post: Metal-Free, Post-Endodontic Rehabilitation, Oral Health, Feb., Pages 23-30. (1996)

~~\*\*GAY D., "Matériaux composites", 4ème édition, HERMES, Paris, 1997.~~

gn Gelfand, M. and Smith, D.C., Retention of Three Post and Core Systems, Scientific Journal, 55:4, Pages 309-312. (1989)

gn Graber, Orthodontics, Principles and Practice, W.B. Saunders Company, Subject index only, 6 pages. (1972)

gn Grave, AMH; Chandler, H.D.; Wolfaardt, J.F., Denture base acrylic reinforced with high modulus fibre. Dent. Mater., 1:185-187. (1985)

~~Hornbrook, D.S. and Hastings, J.H. Use of Bondable Reinforcement Fiber For Post and Core Build Up In An Endodontically Treated Tooth: Maximizing Strength and Aesthetics, PP&A, 7:5, Pages 33-42. No Date~~

gn Isidor, F.; Odman, P. and Brendum, K., Intermittent Loading of Teeth Restored Using Prefabricated Carbon Fiber Posts, International Journal of Prosthodontics, Vol. 9, No. 2, Pages 131-136. (1992)

gn Jeneric/Pentron Post Advertisement "Now This Is a Post", 1 page. (1998)

gn Judes, H.; Gordon, M.; Kunser, W., Composite Resin Retained Post and Core, N.Y.J.D. Vol 53, No. 5, Pages 205-208. (1983)

gn Karna, J.C., A fiber composite laminate endodontic post and core, American Journal of Dentistry, 9:5, Pages 230-232. (1996)

~~\*\*KAW A.K., Mechanics of composite Materials, CRC Press, New York, 1997~~

King, P.A.; Setchell, D.J.; An In Vitro evaluation of a prototype CFRC prefabricated post developed for restoration of pulpless teeth. Journal Oral Rehabilitation, 17:599-609. (1990)

Liu, H.H. and Sidhu, S.K. Cracked Teeth - treatment rationale and case management: Case Reports, Quintessence International, 26:7, Pages 485-492. (1995)

Love, R.M. and Purton, D.G., The Effect of Serrations on Carbon Fibre Posts - Retention Within the Root Canal, Core Retention, and Post Rigidity, International Journal of Prosthodontics, 9:5, Pages 484-488. (1996)

McDonald, A.V.; King, P.A.; Setchell, D.J.; An In Vitro study to compare impact fracture resistance of intact root-treated teeth. International Endodontic Journal, 23:304-312. (1990)

Nash, R.W., The Use of Posts for Endodontically Treated Teeth, Compendium, 19:10, 1054,1056,1060,1062. (1998)

PDR Medical Dictionary, 26<sup>th</sup> ed., Medical Economics, Pages 119, 1412. (1995)

Plasmans, P.J.J.M.; Welle, P.R. and Vrijhoef, M.M.A., In Vitro Resistance of Composite Resin Dowel and Cores, Journal of Endodontics, 14:1, Pages 300-304. (1988)

Polymicro Technologies Brochure for Kynar Resins, Polymicro Technologies, Inc. (1996)

Purton, D.G. and Love, R.M., Rigidity and Retention of carbon fibre versus stainless steel root canal posts, International Endodontic Journal, Vol. 29, Pages 262-265. (1996)





*gn* Purton, D.G. and Payne, J.A., Comparison of carbon fiber and stainless steel root canal posts, Quintessence International 27:2, Pages 93-97. (1996)

~~\*\*REYNE M., "Technologie des composites", 3ème édition, HERMES, Paris, 1998.~~

*gn* Rovatti, L.; Mason, P.A. and Dallari, E.A., Nuove ricerche sui perni endocanalari in fibra di carbonio, Minerva Stomatologia, 43:12, Pages 557-563. (1994)

*gn* Sidoli, G.E.; King, P.A. and Setchell, D.J., An Invitro evaluation of a carbon fiber-based post and core system, Journal of Prosthetic Dentistry, 78:1, Pages 5-9. (1997)

*gn* Standlee, J.P. and Caputo, A.A., Endodontic dowel retention with resinous cements, Journal of Prosthetic Dentistry, 68:6, Pages 913-917. (1992)

~~\*\*TIMOSHENKO, "Résistance des matériaux", Tome 1, édition DUNOD.~~

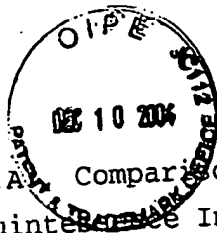
*gn* Torbjomer, A.; Karlsson, S.; Syverud, M. and Hensten-Pettersen, A., Carbon Fiber Reinforced root canal posts, mechanical and cytotoxic properties, European Journal of Oral Sciences, Vol. 104, Pages 605-611. (1996)

~~Tylman, Crown and Bridge Prosthesis, Chap 62, Pages 871-886. No Date~~

*gn* Vermilyea, S.G.; Gardner, F.M. and Moergeli, J.R., Composite Dowels and Cores: Effect of Moisture on the fit of cast restorations, Journal of Prosthetic Dentistry, Vol. 58, Pages 429-431. (1987)

*gn* Von Krammer, R., Anchored Core for the Rehabilitation of posterior teeth, Journal of Prosthetic Dentistry, 55:1, Pages 38-42. (1986)

~~Snowpost website "All About Snowpost", 2004, 6 page website No Date  
Double site~~



gn Purton, D.G. and Payne, J.A., Comparison of carbon fiber and stainless steel root canal posts, Quintessence International 27:2, Pages 93-97. (1996)

~~\*\*REVNE M., "Technologie des composites", 3ème édition, HERMES, Paris, 1998.~~

gn Rovatti, L.; Mason, P.A. and Dallari, E.A., Nuove ricerche sui perni endocanalari in fibra di carbonio, Minerva Stomatologia, 43:12, Pages 557-563. (1994)

gn Sidoli, G.E.; King, P.A. and Setchell, D.J., An Invitro evaluation of a carbon fiber-based post and core system, Journal of Prosthetic Dentistry, 78:1, Pages 5-9. (1997)

gn Standlee, J.P. and Caputo, A.A., Endodontic dowel retention with resinous cements, Journal of Prosthetic Dentistry, 68:6, Pages 913-917. (1992)

~~\*\*TIMOSHENKO, "Résistance des matériaux", Tome 1, édition DUNOD.~~

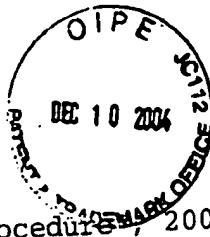
gn Torbjomer, A.; Karlsson, S.; Syverud, M. and Hensten-Pettersen, A., Carbon Fiber Reinforced root canal posts, mechanical and cytotoxic properties, European Journal of Oral Sciences, Vol. 104, Pages 605-611. (1996)

~~Tylman, Crown and Bridge Prosthesis, Chap 62, Pages 871-886. No Petr~~

gn Vermilyea, S.G.; Gardner, F.M. and Moergeli, J.R., Composite Dowels and Cores: Effect of Moisture on the fit of cast restorations, Journal of Prosthetic Dentistry, Vol. 58, Pages 429-431. (1987)

gn Von Krammer, R., Anchored Core for the Rehabilitation of posterior teeth, Journal of Prosthetic Dentistry, 55:1, Pages 38-42. (1986)

gn Snowpost website "All About Snowpost", 2004, 6 page website



ga Snowpost website, "Clinical Procedures", 2004, 4 page website

ga Snowpost website, "Documentation", 2004, 3 page website

ga Snowpost website, "Carbopost", 2004, 4 page website

~~\*\*ZWEBEN C., Mechanical properties of Composite Materials, Delaware  
Composite Design Encyclopedia, Vol. 1, Technomic Publishing,  
Lancaster, 1992.~~

\*\*Not in applicants' possession; To be supplied when available to applicants.

Examiner

Date

2/16/05

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